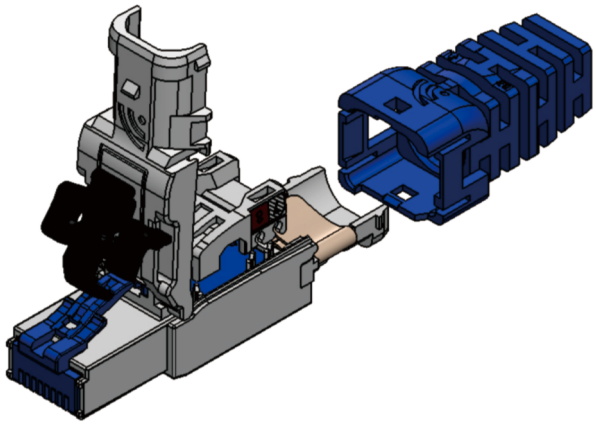
88TSK016AI 88TSK Series Field Term. Plug



IEC 60512-99-002 Compliance for Support of IEEE 802.3bt Type 4 Remote Powering (PoE++)

ETL Certified: 104318992CRT-001e

Field Termination Plug Structure

U.S. Patent: US 10,490,960 B1

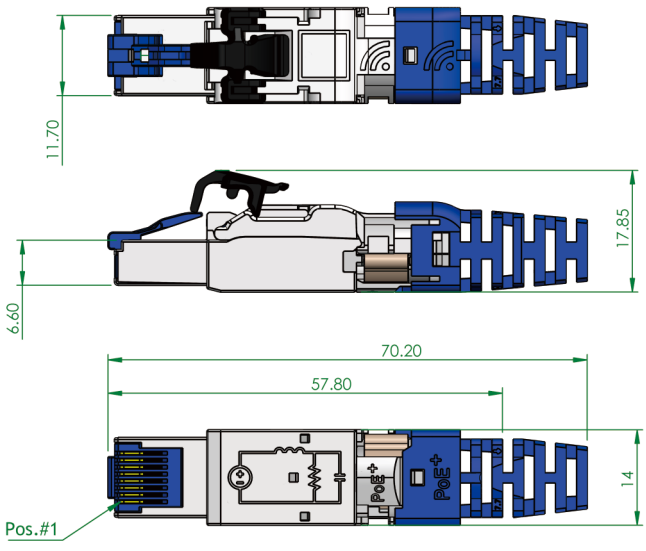
Technical Information

Transmission Performance	ISO-11801 & TIA-568.2-D Cat 6A Patch Cord TIA-568.2-D Cat 6A Modular Plug Terminated Link (MPTL) Compliant
FCC & IEC Compliance	Meets FCC part 68-F & IEC 60603-7
PoE Compliance	Supports Power over Ethernet PoE+ 802.3at and PoE++ 802.3bt
PoE Remote Powering	IEC 60512-99-002 Certified
EU Directive 2002/95/EC	RoHS Compliant
Safety Listing	UL Recognized Component

Materials Specifications

Plug Main Housing	Zinc Alloy, Nickel Plated
Contact Blade	Phosphor Bronze
Contact Blade Plating	50u" Gold at Contact Area Nickel Undercoat
IDC Terminal	Phosphor Bronze
IDC Terminal Plating	Ni/Sn
IDC Housing	ABS UL94V-0
Top Cover + Rear Cover	Zinc Alloy, Nickel Plated
Plug Latch	PC UL94V-0
Strain Relief	PC UL94V-0
PCB	FR-4

Dimensions



(Unit=mm)

Mechanical Specifications

Insertion Life into a Jack	>750x
Retention Force with a Jack	>60N
Insertion Force into a Jack	<30N
Withdraw Force from a jack	<30N
IDC Re-Termination	>20x *
Cable Retention Force	>80N

* re-terminate with same cable gauge

Electrical Specifications

Contact Resistance	<20mΩ
DC Resistance	<200mΩ
Shield Resistance	<100mΩ
Resistance Unbalance	<50mΩ
Insulation Resistance	>500MΩ
Dielectric Strength	>1000VDC
Current Rating	1.5A @ 20°C

Environmental Specifications

Operating Temperature	-10°C to 60°C
Storage Temperature	-40°C to 68°C
Humidity	10% to 90%RH

Cable & Tool Compatibility

Cable O.D.	6mm to 7.7mm
Insulation Diameter	0.8mm to 1.47mm
Conductor Gauge	23AWG Solid to 26AWG Stranded
Tool	EZ-RJ45 Parallel Plier 3013APCT01

Transmission Characteristics

0.5Meter Patch Cord

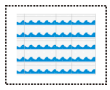
Freq. (MHz)	ISO-11801-1 NEXT All Pairs (dB) Limit	ISO-11801-1 NEXT All Pairs (dB) Min.	TIA-568.2-D NEXT Other Pairs (dB) Limit	TIA-568.2-D NEXT Other Pairs (dB) Min.	TIA-568.2-D NEXT Pairs 36-54 (dB) Limit	TIA-568.2-D NEXT Pairs 36-54 (dB) Min.	ISO-11801-1 TIA-568.2-D Return Loss All Pairs (dB) Limit	ISO-11801-1 TIA-568.2-D Return Loss All Pairs (dB) Min.
1	65.00	92.50	65.00	93.90	65.00	92.50	19.80	39.00
4	65.00	81.30	65.00	81.70	65.00	81.30	21.60	41.80
8	65.00	75.20	65.00	76.40	65.00	75.20	22.50	40.90
10	65.00	73.60	65.00	74.70	65.00	73.60	22.80	39.10
16	62.90	69.50	63.00	70.60	61.60	69.50	23.40	36.90
20	61.00	67.70	61.10	68.90	59.70	67.70	23.70	35.80
25	59.10	65.90	59.20	67.10	57.80	65.90	24.00	34.70
31.25	57.20	64.00	57.30	65.30	55.90	64.00	23.00	33.50
62.5	51.20	57.80	51.30	61.10	49.90	57.80	20.00	30.00
100	47.20	53.70	47.30	60.70	45.90	53.70	18.00	28.90
200	41.30	48.90	41.40	49.50	40.00	48.90	15.00	19.80
250	39.50	44.10	39.50	44.10	38.10	46.50	14.00	16.00
300	37.20	42.00	37.30	42.00	35.90	42.70	12.80	14.90
400	33.70	41.50	33.70	44.90	32.30	41.50	10.90	16.80
500	30.90	34.00	30.90	34.70	29.50	34.00	9.50	10.90

0.5 Meter Modular Plug Terminated Link (MPTL)

Freq. (MHz)	TIA Specified Max. IL (dB)	88TSK016AI IL (dB)	TIA Specified Min. NEXT (dB)	88TSK016AI NEXT (dB)	TIA Specified Min. PSNEXT (dB)	88TSK016AI PSNEXT (dB)	TIA Specified Min. RL (dB)	88TSK016AI RL (dB)
1	3.00	0.10	65.00	93.30	62.00	90.00	19.10	37.80
4	3.50	0.10	64.10	83.80	61.80	80.80	21.00	33.40
8	5.00	0.10	59.40	77.80	57.00	74.40	21.00	31.70
10	5.50	0.10	57.80	75.90	55.50	72.60	21.00	31.30
16	7.00	0.10	54.60	72.10	52.20	68.60	20.00	30.60
20	7.80	0.10	53.10	70.30	50.70	66.70	19.50	30.10
25	8.80	0.10	51.50	68.40	49.10	64.70	19.00	28.90
31.25	9.80	0.10	50.00	66.70	47.50	62.70	18.50	27.80
62.5	14.00	0.20	45.10	60.60	42.70	56.50	16.00	27.40
100	18.00	0.30	41.80	56.10	39.30	52.30	14.00	25.30
200	26.10	0.40	36.90	49.30	34.30	47.20	11.00	22.30
250	29.50	0.50	35.30	47.40	32.70	45.40	10.00	22.40
300	32.70	0.60	34.00	41.50	31.40	39.80	9.20	17.60
400	38.40	1.00	29.90	36.20	27.10	33.60	8.00	12.20
500	43.80	1.10	26.70	34.30	23.80	31.60	8.00	11.00

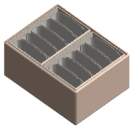
Freq. (MHz)	TIA Specified Min. ACR-N (dB)	88TSK016AI ACR-N (dB)	TIA Specified Min. PSACR-N (dB)	88TSK016AI PS-ACR-N (dB)	TIA Specified Min. ACR-F (dB)	88TSK016AI ACR-F (dB)	TIA Specified Min. PSACR-F (dB)	88TSK016AI PS-ACR-F (dB)
1	62.00	93.20	59.00	90.00	64.20	81.70	61.20	78.60
4	60.50	83.70	58.30	80.80	52.10	69.40	49.10	66.70
8	54.40	77.70	52.10	74.30	46.10	63.40	43.10	60.60
10	52.30	75.80	50.00	72.50	44.20	61.40	41.20	58.60
16	47.60	72.00	45.20	68.50	40.10	57.30	37.10	54.50
20	45.20	70.20	42.80	66.60	38.20	55.40	35.20	52.60
25	42.80	68.30	40.40	64.60	36.20	53.40	33.20	50.70
31.25	40.20	66.60	37.70	62.60	34.30	51.40	31.30	48.70
62.5	31.10	60.40	28.60	56.40	28.30	45.10	25.30	42.60
100	23.90	55.90	21.30	52.10	24.20	40.70	21.20	38.30
200	10.80	48.90	8.20	46.90	18.20	34.90	15.20	32.30
250	5.80	47.00	3.20	45.00	16.20	32.70	13.20	30.20
300	1.40	41.00	-1.30	39.20	14.60	30.70	11.60	28.20
400	-8.60	35.60	-11.40	32.60	12.10	26.60	9.10	25.00
500	-17.10	33.20	-20.00	30.50	10.20	24.20	7.20	22.70

Packaging & Weights



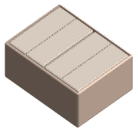
50pcs
in one PE Bag

5 Bags(250pcs)
in one Inner Box



2 Inner Boxes(500pcs)
in one Carton

Carton Size: 49x23x37cm
N.W.: 10.5kgs
G.W.: 11.7kgs



(1.47cuft)

Order Infomation

88TSK016AI — Shielded ISO Class EA / TIA Cat 6A Modular Plug Terminated Link (MPTL) Compliant Field Termination Plug

HSING CHAU INDUSTRIAL CO., LTD.
9Fl., No.39, Lane 513, Ruiguang Rd., Neihu District, Taipei City 11492, Taiwan
www.hci.com.tw Tel: +886-2-87971111 since 1975